# Karanvir Khanna

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## Education

**University of Toronto** Sep. 2021 – April 2025

*BSc: Computer Science Specialist and, Minor in Mathematics - GPA: 3.54/4.00 (12 credits as of now)*

**Relevant Courses**: Information Security, Algorithm Design and Analysis, Principles of Programming Languages, Artificial Intelligence, Machine Learning, Databases, Computational Complexity Analysis, Computer Vision, Matroid Theory Research, Programming on the Web, Operating Systems, Computer Organization, Software Design, Software Tools and Systems, Computational Probabilities and Statistics, Data Structures and Analysis, Theory of Computation, Groups and Symmetries, Contemporary Communications, Mathematical Proofs, Calculus I & II, Linear Algebra I & II, and Modern Symbolic Logic

## Awards

- **DAMA Associate (2023):** Achieving 75%+ in the CDMP foundations exam, hosted by Data Management Association (DAMA).
- **Dean's List Scholar (2021-2023):** Cumulative GPA of 3.50 or higher after completion of a year
- **Deer Hacks Hackathon Winner (2022):** Awarded to the winner of the hackathon that happens annually at UofT
- **University of Toronto Entrance Scholarship (2021):** Scholarship recognizing the most outstanding applicants

## Professional Experience

**Data Governance Summer Intern** **May. 2023– Sep. 2023**

*KPMG LLP (Canada)*

- Leveraged the OpenAI framework to streamline the data governance and management process in various projects
- Used Azure Dev-ops for structuring tasks and responsibilities.
- Participated in Data management (DM) and governance (DG) activities at the firm
- DM and DG platform selection including but not limited to Informatica, Microsoft Purview, Collibra, Alation, and OvelEdge

## Academia

**Matroid Theory Research** **May. 2023 – Sep. 2023**

*University of Toronto*

- Researched the combinatorial approach to find the volume of the polar dual of a matroid polytope under the guidance of Ahmed Ashraf
- Developed **sage** code to test out the hypothesis
- Developed a **novel** combinatorial theorem for finding the volume of the polar dual of uniform matroids

## Certifications

**CDMP Associate** **May. 2023 – Aug. 2023**

*DAMA (Data Management Association)*

- Certified Data Management Professional (CDMP) is a globally recognized Data Management Certification program run by DAMA International
- There are currently 4,562* Certified Data Management Professionals across 98 countries

## Key Projects

**Essay Research Tool (Hackathon Winner)** | *UiPath, Google API, Python, Git* | Demo

- Learned **UiPath** automation within **12 hours**
- Used **Google API** to implement a bot that gathers relevant data about the subject
- Used **Python** and **Flask** to incorporate UiPath into a **user-friendly** tool

**ImageRecog** | *JavaFX, Machine Learning, Git, JUnit*

- Created an AI that classifies images using the **Naive Bayes Algorithm** with **75%+** accuracy
- Used the **JavaFX** framework to create a responsive and user-friendly UI and allows users to train models and classify images
- Collaborated in a team of four making use of the **Agile Development Cycle, Established Governance, Daily Scrum**s, and **Git Flow**
- Implemented design patterns such as the **MVC** and **command** pattern for an extensible software design.
- Created unit tests using the **JUnit** Framework reducing debugging time by **500%**

## Technical Skills

**Languages**: Java, Python, C/C++, JavaScript, HTML/CSS
**Platform:** UIPath, Azure Cloud, OpenAI, Microsoft Office 365, Sharepoint
**Frameworks:** Node.js, Flask, JUnit
**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, IntelliJ

**Note: References are available upon request**